17311SEQLIST.TXT

SEQUENCE LISTING

<110> Dolly, James Oliver
      Li, Yan
      Chan, C.K.
      Aoki, Kei Roger

<120> Activatable Recombinant Neurotoxins

<130> 17311(BOT)

<140> 09/648,692
<141> 2000-08-25

<150> 60/150,710
<151> 1999-08-25

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<220>
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<400> 4
ttctaaagat ctatacattt gataact   27

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<400> 6
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<210> 7
<211> 65
<212> PRT
<213> Artificial Sequence

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<223> Engineered Intrachain loop region for C. tetani
      toxin

<400> 7
Ser Lys Leu Ile Gly Leu Cys Lys Lys Ile Ile Pro Pro Thr Asn Ile
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Arg Glu Asn Leu Tyr Asn Arg Thr Ala Gly Glu Lys Leu Tyr Asp Asp
            20   25   30
Asp Asp Lys Asp Arg Trp Gly Ser Ser Arg Ser Leu Thr Asp Leu Gly
        35   40   45
Gly Glu Leu Cys Ile Lys Asn Glu Asp Leu Thr Phe Ile Ala Glu Lys
    50   55   60
Asn
65

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<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 8
aatagaactg caggagaaaa gctttacgac gatgac   36

<210> 9
<211> 36
<212> DNA
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<220>
<223> PCR Primer

<400> 9
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<210> 10
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<212> DNA
<213> Clostridium botulinum

<400> 10
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ctatggatat taaaaaatat ataaatttaa aattaggaga tgctgtatat gccaaaaatt 240
aatagtttta attataatga tcctgttaat gatagaacaa ttttatatat taaaccaggc 300
ggttgtcaag aattttataa atcatttaat attatgaaaa atatttggat aattccagag 360
agaaatgtaa ttggtacaac cccccaagat tttcatccgc ctacttcatt aaaaaatgga 420
gatagtagtt attatgaccc taattattta caaagtgatg aagaaaagga tagattttta 480
aaaatagtca caaaaatatt taatagaata aataataatc tttcaggagg gattttatta 540
gaagaactgt caaaagctaa tccatattta gggaatgata atactccaga taatcaattc 600
catattggtg atgcatcagc agttgagatt aaattctcaa atggtagcca agacatacta 660
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aactatgata ataagatagt aaatgttaat aatgaataca ctataataaa ttgtatgaga 3060
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gataatcgag gaattaatca aaaattagca tttaactatg gtaacgcaaa tggtatttct 3180
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aatcaagtag tagttatgaa ttcagtagga aattgtacaa tgaattttaa aaataataat 3840
ggaaataata ttgggttgtt aggtttcaag gcagatactg tcgttgctag tacttggtat 3900
tatacacata tgagagatca tacaaacagc aatggatgtt tttggaactt tatttctgaa 3960
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<210> 11
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<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 11
cccggatccc caaaaattaa tagttttaat tataatg   37

<210> 12
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 12
cccctgcagt catttttctt gccatccatg ttcttc   36

<210> 13
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 13
cagttaatac attcattaca tggactatat g   31

<210> 14
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 14
atgcattaat gtaagagcag gatctt   26

<210> 15

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<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Protease cleavage site

<400> 15
Asp Asp Asp Asp Lys
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<210> 16
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Protease cleavage site

<400> 16
Leu Glu Val Leu Phe Gln Gly Pro
 1               5


<210> 17
<211> 5
<212> PRT
<213> Clostridium species

<220>
<221> ZN_FING
<222> (1)...(5)
<223> Zinc finger

<221> SITE
<222> (3)...(4)
<223> Xaa=any amino acid

<400> 17
His Glu Xaa Xaa His
 1               5


<210> 18
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 18
ggagaaaagc tttacgacga tgacgataag gatcgatggg gatcctctag a          51

<210> 19
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker
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<400> 19
Met Gly Gly Ser His His His His His His Gly Met Ala Ser Met Thr
1   5   10   15
Gly Gly Gln Gln Val Asp
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<210> 20
<211> 19
<212> PRT
<213> Clostridium botulinum

<400> 20
Ser Leu Thr Asp Leu Gly Gly Glu Leu Cys Ile Lys Ile Lys Asn Glu
1   5   10   15
Asp Leu Thr

<210> 21
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 21
atgagaggat cgcatcacca tcaccatcac ggatccccaa aaattaatag tttt   54

<210> 22
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Protease cleavage site

<221> SITE
<222> (2)...(3)
<223> Xaa=any amino acid

<400> 22
Glu Xaa Xaa Tyr Ser Gln Ser
1   5

<210> 23
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Protease cleavage site

<221> SITE
<222> (2)...(3)
<223> Xaa=any amino acid

<221> SITE
<222> (5)...(5)
<223> Xaa=any amino acid

<400> 23
Glu Xaa Xaa Tyr Xaa Gln Gly
 1   5

<210> 24
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Translated PCR fragment

<400> 24
Met Arg Gly Ser His His His His His His Gly Ser Pro Lys Ile Asn
 1   5   10   15
Ser Thr

<210> 25
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<213> Clostridium species

<220>
<221> ZN_FING
<222> (1)...(5)
<223> Zinc finger

<400> 25
His Glu Leu Ile His
 1   5

<210> 26
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<213> Clostridium botulinum C

<220>
<221> ZN_FING
<222> (1)...(5)
<223> Zinc finger

<400> 26
His Glu Leu Asn His
 1   5

<210> 27
<211> 5
<212> PRT
<213> Clostridium botulinum D

<220>
<221> ZN_FING
<222> (1)...(5)
<223> Zinc finger

<400> 27
His Glu Leu Thr His
 1   5

<210> 28
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<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)...(4)
<223> Blood coagulation factor Xa

<400> 28
Ile Glu Gly Arg
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<210> 29
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<213> Artificial Sequence

<220>
<223> Linker

<400> 29
Gly Glu Lys Leu Tyr Asp Asp Asp Asp Lys Asp Arg Trp Gly Ser Ser
 1   5   10   15
Arg